# Foodborne Disease Applying "Lessons Learned"

Washington State
State Board of Health Meeting
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Dept. of Health



# September 2004

proclaimed

Food Safety Education Month in Washington





### National Food Safety Education Month®

**National Restaurant Association Educational Foundation** 

## Food Service Today



• Restaurants: \$354 billion annually

• > 44 % of food dollar spent away from home



Supermarkets stock ~ 30,000 items (1950's - 300 items)

### Current Issues

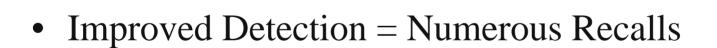
• Since 1975, ~ 25 new FBI microbes have been identified.

- ed.
- Antibiotic resistant strains
  - S. typhimurium DT104

- Same Bug / Different Foods
  - E. coli and Salmonella sprouts / other produce
  - Cyclospora raspberries

### Current Issues

- Low Doses & Survival in Dry or Acidic Foods
  - E. coli O157:H7 Apple Juice
  - Salmonella Dry Cereal



Increased Consumer Demands

Noroviruses

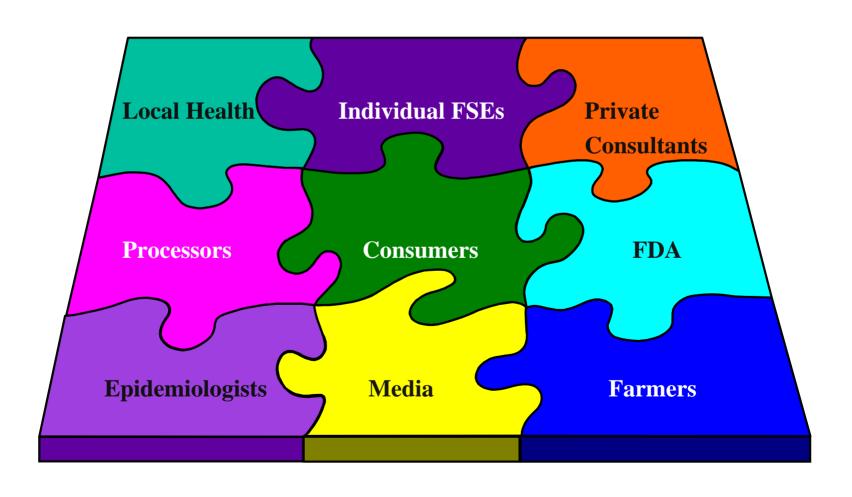


### Factors Contributing to an Increased Risk of Foodborne Illness

- Aging Populations
- ◆ Lifestyles of the Public
- ◆ New and Emerging Pathogens
- ◆ Increase in High Risk Individuals
- ◆ New Processing Methods for Foods
- ◆ New Sources of Foods Geographic



### WHO'S WHO IN FOOD PROTECTION



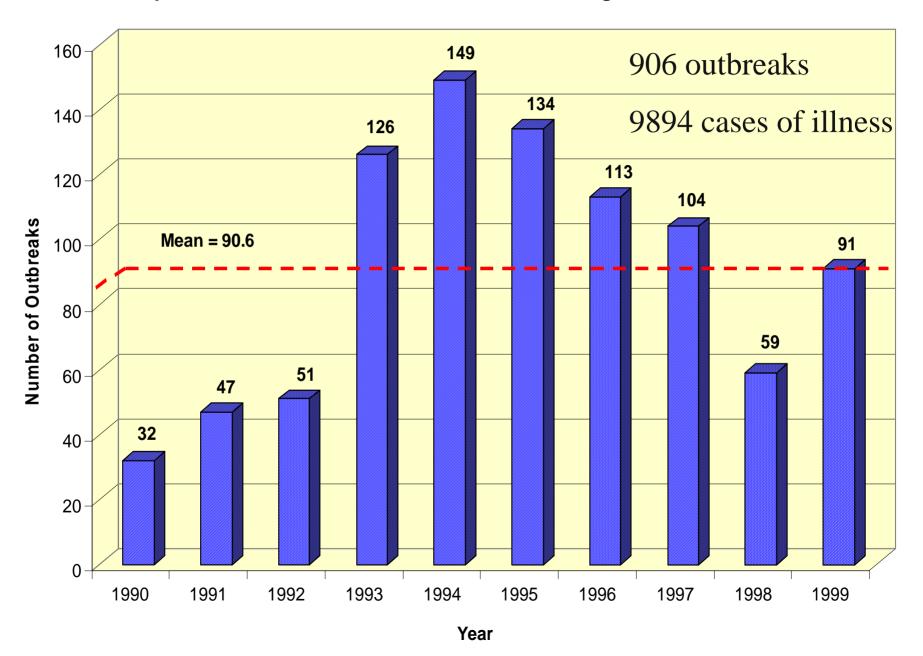
# Estimated Annual Number of Foodborne Illnesses in Washington State

(extrapolated from CDC U.S. estimates- 2000)



- 1.5 million illnesses per year
- 6500 hospitalizations
- 100 deaths

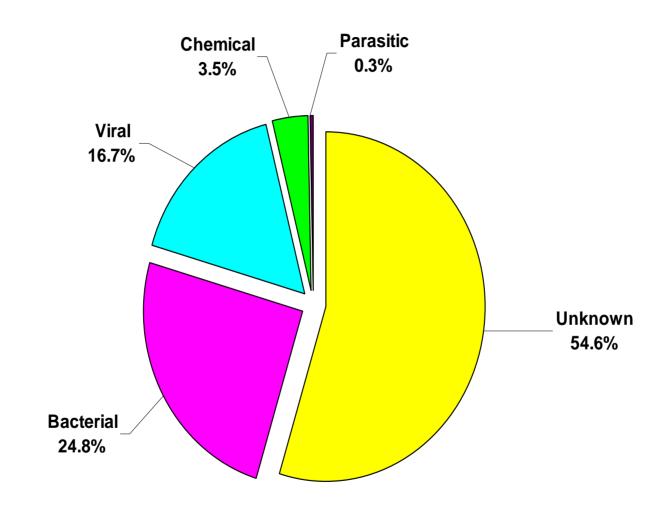
#### Reported Foodborne Disease Outbreaks Washington State 1990-1999



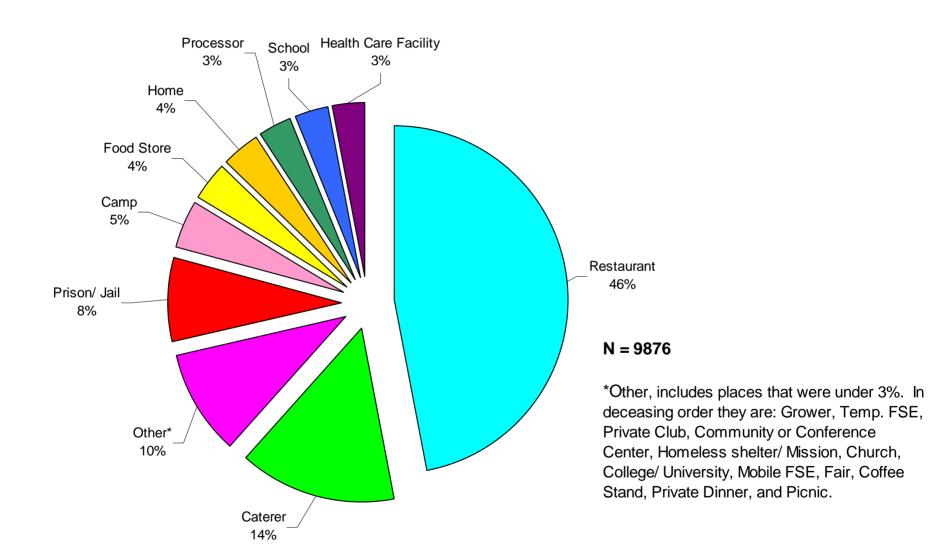
# Foodborne Disease Surveillance Serves Three Purposes:

- Disease Control & Prevention
  - Corrective Actions(s) by F.S.E.'s
  - Recall Contaminated Food(s)
- Knowledge of Disease Causation
  - Identify New & Emerging Pathogens
- Administrative Guidance
  - Focus Program (Track- Agents, Vehicles & Factors)
  - Improve Regulations & Laws

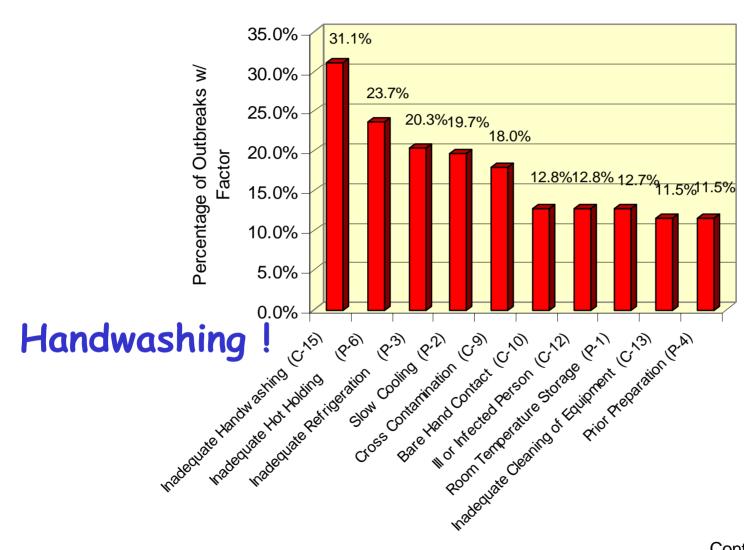
#### Percentages of Foodborne Disease Outbreaks By Agent Type Washington State 1990-1999



### Cases Associated with Place of Contamination of Implicated Food for FBDO's Washington State 1990-1999



# Major Factors Associated with FBDO's WA State 1990-1999



# **Trends**

### *In the 80's...*

Was beef
Was turkey
Was roast beef and turkey
Some viruses
Was Salmonella
Some Mex/Chinese
Was cooling
E. coli emerged

### In the 90's...

- Now hamburger
- Now chicken
- Now Starchy foods & RTE foods handled by FW
- Now nearly 1/2 the cases are viral
- Still Salmonella
- Increased M/Ch + others
- Now handwashing
- Emerging pathogens including E. coli O157:H7, Crypto, ETEC, V.p., S. typhimurium DT104...
- Old Pathogens, New Foods (non-PHF)

# WHAT ARE WE GOING TO DO WITH THIS INFO??

- Revise Inspection Report Form
- Educate /Train Regulators and Industry
- Implement New Policies
- Change Rules
- Develop Policies
- Continue Analysis

## Rule Changes - due to "lessons learned"

- Bare Hand Contact (BHC)
  From "minimize" to "no BHC" with ready-to-eat food
- Employee Health and Hygiene
   More clearly define when a worker must be restricted
- Cooking Temperatures
   Increased for some foods
- Cold Holding Temperature
   Decreasing from 45 to 41
- Consumer Advisory
   Requiring "reminder" about health concerns

